THE CANADIAN JOURNAL OF NEUROLOGICAL SCIENCES

VOL. 18, NO. 1 FEB. 1991

SPECIAL FEATURE

1990 Richardson Lecture — Challenges for Neurology in the Nineties: Will We Survive?
Joseph B. Martin 1

ORIGINAL ARTICLES

Effect of an Inhibitor of Lipid Peroxidation, U78517F, on C6 Astrocytoma Growth
Rolando F. Del Maestro, Christine R. Farrell, Eric Stroude and Warren McDonald 7

The Cycling Pool of Cells within Human Brain Tumors: *In Situ* Cytokinetics Using the Monoclonal Antibody Ki-67
Ana Maria Tsanaclis, Françoise Robert, Jean Michaud and Steven Brem 12

Visual Hallucinations on Eye Closure Associated with Atropine Toxicity. A Neurological Analysis and Comparison with Other Visual Hallucinations
C. Miller Fisher 18

Organization of Mouse Motor Cortex Studied by Retrograde Tracing and Intracortical Microstimulation (ICMS) Mapping
Cheng-Xiang Li and Robert S. Waters 28

Transfer Constants for Blood-Brain Barrier Permeation of the Neuroexcitatory Shellfish Toxin, Domoic Acid
Edward Preston and Ivo Hynie 39

Familial Amyotrophic Lateral Sclerosis, 1850 - 1989: A Statistical Analysis of the World Literature
M.J. Strong, A.J. Hudson and W.G. Alvord 45

Single Photon Emission Computed Tomography Using ^{99m}Tc-HM-PAO in the Routine Evaluation of Alzheimer's Disease
T.A. Hurwitz, W. Ammann, D. Chu, C. Clark, J. Holden and R. Brownstone 59

Vernix Caseo Granulomatous Meningitis (Vernicomyelia)
Rajiv Midha and Laurence E. Becker 63

A Comparison of the Efficacy and Tolerability of Controlled-Release Carbamazepine with Conventional Carbamazepine
Z. Dhalla, J. Bruni and J. Sutton 66

FOCUS ON PARKINSON'S DISEASE 69-92

EDITORIAL

Parkinson's Disease: Progress and Controversies
Robert G. Lee 69

REVIEW ARTICLES

Environment, Genetics and Idiopathic Parkinson's Disease
J. Poirier, Sandra Kogan and Serge Gauthier 70

MPTP-Induced Neurotoxicity and the Quest for a Preventative Therapy for Parkinson's Disease
J.C.S. Furtado and Michael F. Mazurek 77

VIEWPOINTS

Commentary on Deprenyl
Protective vs. Symptomatic Effect
Oscar S. Kofman 83

The Exciting Possibility of Protective Effect
J. David Grimes 85

CONFERENCE SUMMARY

National Conference on Parkinson's Disease
A.J. Rajput, D. Calne and A.E. Lang 87

ABSTRACTS

The 4th Canadian Neuro-oncology Meeting, June 1990 93

CORRESPONDENCE 104

BOOK REVIEWS 106

NOTES AND ANNOUNCEMENTS 110

CALENDAR OF EVENTS 111

INSTRUCTIONS TO AUTHORS vi

ADVERTISERS INDEX xxi

VOL. 18, NO. 2 MAY 1991

ORIGINAL ARTICLES

Analgesic Effects of Vibration and Transcutaneous Electrical Nerve Stimulation Applied Separately and Simultaneously to Patients with Chronic Pain
Régis Guieu, Marie-Françoise Tardy-Gervet and Jean-Pierre Roll 113

Perioperative Management and Outcome after Surgical Treatment of Anterior Cerebral Artery Aneurysms
Issam A. Awad and John R. Little 120

Abnormalities of Peripheral Nerve Conduction in Relation to Thiamine Status in Alcoholic Patients
Monique L. D'Amour, Julie Bruneau and Roger F. Butterworth 126

Assessment of Cognitive Impairment: The Role of CT
Marica Varga, George Wortzman and Morris Freedman 129

The Effect of Tricyclic Antidepressants on Cortex- and Amygdala-Kindled Seizures in the Rat
R. Yacobi and W.M. Burnham 132

Recurrent Cerebral Infarction during Anticoagulation Therapy in Patients with Mitral Valve Prolapse
Ashfaq Shuaib and William F. Murphy 137

Graves' Thyrotoxicosis and Moyamoya Disease
Kenji Kushima, Yukata Satoh, Yoshio Ban, Matsuo Taniyama, Kunihiko Ito and Koujiro Sugita 140

Spasmodic Torticollis — Review of 220 Patients
P. Rondot, M.P. Marchand and G. Dellatolas 143

SYMPOSIUM

"Neuro-embryology and Cerebral Dysgenesis" 152

Cephalic Axial Skeletal – Neural Dysraphic Disorders: Embryology and Pathology
Miguel Marín-Padilla 153

Synaptic Dysgenesis
L.E. Becker 170

Surgical Implications of Cerebral Dysgenesis
D. Douglas Cochrane, K.J. Poskitt and M.G. Norman 181

Cerebral Dysplasias as Expressions of Altered Maturational Processes
Harvey B. Sarnat 196

XXVI CANADIAN CONGRESS OF NEUROLOGICAL SCIENCES

Program and Abstracts 205

CALENDAR OF EVENTS 270

NOTES AND ANNOUNCEMENTS 271

BOOK REVIEWS 272

ADVERTISERS INDEX xxiii

INSTRUCTIONS TO AUTHORS xxvi

VOL. 18, NO. 3 AUG. 1991

ORIGINAL ARTICLES

Accuracy of Clinical Diagnosis in Parkinsonism - A Prospective Study
A.H. Rajput, B. Rozdilsky, and Alex Rajput 275

Parkinson's Disease and Exposure to Rural Environmental Factors: A Population Based Case-Control Study
Karen M. Semchuk, Edgar J. Love and Robert G. Lee 279

Two Types of Spheroid Bodies in the Nigral Neurons in Parkinson's Disease
Tatsua Yamada, Haruhiko Akiyama and Patrick L. McGeer 287

The Case For Conservative Management of Venous Angiomas
Douglas Kondziolka, Peter K. Dempsey and L. Dade Lunsford 295

Myotonic Dystrophy: An Electrophysiological Study of Cognitive Deficits
Aldo Ragazzoni, Francesco Pinto, Rosanna Taiuti, and Maria Caterina Silveri 300

Treatment of Heredo-Degenerative Ataxias with Amantadine Hydrochloride
M.I. Botez, Simon N. Young, Thérèse Botez and Olgo L. Pedraza 307

Dissociated Loss of Vibration, Joint Position and Discriminatory Tactile Senses in Disease of Spinal Cord and Brain
R.T. Ross 312

Modulation of Locomotor Patterns and Spasticity with Clonidine in Spinal Cord Injured Patients
J.E. Stewart, H. Barbeau and S. Gauthier 321

A Movement-Associated Fast Rolandic Rhythm
Richard S. McLachlan and Lai Wo S. Leung 333

Accessory Nerve Palsy: A Review of 23 Cases
H. Berry, E.A. MacDonald and A.C. Mrazek 337

Entrapment of an Accessory Superficial Peroneal Sensory Nerve
Michael Rubin, David Menche and Mark Pitman 342

Dementia with Leukoencephalopathy in Systemic Lupus Erythematosus
Andrew Kirk, Andrew Kertesz and Marsha J. Polk 344

Bulbo-pontine Paralysis with Deafness: the Vialetto-Van Laere Syndrome
J.M. Abarbanel, P. Ashby, A. Marquez-Julio and K.R. Chapman 349

Pathological and Molecular Biological Features of a Myelopathy Associated with HTLV-1 Infection
Christopher Power, Brian G. Weinshenker, Gregory A. Dekaban, John C.E. Kaufmann, Maureen Shandling, George P.A. Rice 352

Benign Brainstem Hemorrhage
Ashfaq Shuaib 356

Pheumocephalus following Treatment of Esthesioneuroblastoma
E.H. Klimek, R.L. Macdonald and J.H.N. Deck 358

A Footnote to Medical History: David Alexander Shirres on Spinal Cord Regeneration
Preston Robb 361

Minimal Standards for Electroencephalographic Laboratories 363

NOTES AND ANNOUNCEMENTS 365

CALENDAR OF EVENTS 366

BOOK REVIEWS 368

INSTRUCTIONS TO AUTHORS viii

ADVERTISERS INDEX xviii

THE CANADIAN JOURNAL OF NEUROLOGICAL SCIENCES

VOL. 18, NO. 1 FEB. 1991

SPECIAL FEATURE

1990 Richardson Lecture — Challenges for Neurology in the Nineties: Will We Survive?
Joseph B. Martin 1

ORIGINAL ARTICLES

Effect of an Inhibitor of Lipid Peroxidation, U78517F, on C6 Astrocytoma Growth
Rolando F. Del Maestro, Christine R. Farrell, Eric Stroude and Warren McDonald 7

The Cycling Pool of Cells within Human Brain Tumors: *In Situ* Cytokinetics Using the Monoclonal Antibody Ki-67
Ana Maria Tsanaclis, Françoise Robert, Jean Michaud and Steven Brem 12

Visual Hallucinations on Eye Closure Associated with Atropine Toxicity. A Neurological Analysis and Comparison with Other Visual Hallucinations
C. Miller Fisher 18

Organization of Mouse Motor Cortex Studied by Retrograde Tracing and Intracortical Microstimulation (ICMS) Mapping
Cheng-Xiang Li and Robert S. Waters 28

Transfer Constants for Blood-Brain Barrier Permeation of the Neuroexcitatory Shellfish Toxin, Domoic Acid
Edward Preston and Ivo Hynie 39

Familial Amyotrophic Lateral Sclerosis, 1850 - 1989: A Statistical Analysis of the World Literature
M.J. Strong, A.J. Hudson and W.G. Alvord 45

Single Photon Emission Computed Tomography Using ^{99m}Tc-HM-PAO in the Routine Evaluation of Alzheimer's Disease
T.A. Hurwitz, W. Ammann, D. Chu, C. Clark, J. Holden and R. Brownstone 59

Vernix Caseo Granulomatous Meningitis (Vernicomyelia)
Rajiv Midha and Laurence E. Becker 63

A Comparison of the Efficacy and Tolerability of Controlled-Release Carbamazepine with Conventional Carbamazepine
Z. Dhalla, J. Bruni and J. Sutton 66

FOCUS ON PARKINSON'S DISEASE 69-92

EDITORIAL

Parkinson's Disease: Progress and Controversies
Robert G. Lee 69

REVIEW ARTICLES

Environment, Genetics and Idiopathic Parkinson's Disease
J. Poirier, Sandra Kogan and Serge Gauthier 70

MPTP-Induced Neurotoxicity and the Quest for a Preventative Therapy for Parkinson's Disease
J.C.S. Furtado and Michael F. Mazurek 77

VIEWPOINTS

Commentary on Deprenyl
Protective vs. Symptomatic Effect
Oscar S. Kofman 83

The Exciting Possibility of Protective Effect
J. David Grimes 85

CONFERENCE SUMMARY

National Conference on Parkinson's Disease
A.J. Rajput, D. Calne and A.E. Lang 87

ABSTRACTS

The 4th Canadian Neuro-oncology Meeting, June 1990 93

CORRESPONDENCE 104

BOOK REVIEWS 106

NOTES AND ANNOUNCEMENTS 110

CALENDAR OF EVENTS 111

INSTRUCTIONS TO AUTHORS vi

ADVERTISERS INDEX xxi

VOL. 18, NO. 2 MAY 1991

ORIGINAL ARTICLES

Analgesic Effects of Vibration and Transcutaneous Electrical Nerve Stimulation Applied Separately and Simultaneously to Patients with Chronic Pain
Régis Guieu, Marie-Françoise Tardy-Gervet and Jean-Pierre Roll 113

Perioperative Management and Outcome after Surgical Treatment of Anterior Cerebral Artery Aneurysms
Issam A. Awad and John R. Little 120

Abnormalities of Peripheral Nerve Conduction in Relation to Thiamine Status in Alcoholic Patients
Monique L. D'Amour, Julie Bruneau and Roger F. Butterworth 126

Assessment of Cognitive Impairment: The Role of CT
Marica Varga, George Wortzman and Morris Freedman 129

The Effect of Tricyclic Antidepressants on Cortex- and Amygdala-Kindled Seizures in the Rat
R. Yacobi and W.M. Burnham 132

Recurrent Cerebral Infarction during Anticoagulation Therapy in Patients with Mitral Valve Prolapse
Ashfaq Shuaib and William F. Murphy 137

Graves' Thyrotoxicosis and Moyamoya Disease
Kenji Kushima, Yukata Satoh, Yoshio Ban, Matsuo Taniyama, Kunihiko Ito and Koujiro Sugita 140

Spasmodic Torticollis — Review of 220 Patients
P. Rondot, M.P. Marchand and G. Dellatolas 143

SYMPOSIUM

"Neuro-embryology and Cerebral Dysgenesis" 152

Cephalic Axial Skeletal – Neural Dysraphic Disorders: Embryology and Pathology
Miguel Marín-Padilla 153

Synaptic Dysgenesis
L.E. Becker 170

Surgical Implications of Cerebral Dysgenesis
D. Douglas Cochrane, K.J. Poskitt and M.G. Norman 181

Cerebral Dysplasias as Expressions of Altered Maturational Processes
Harvey B. Sarnat 196

XXVI CANADIAN CONGRESS OF NEUROLOGICAL SCIENCES

Program and Abstracts 205

CALENDAR OF EVENTS 270

NOTES AND ANNOUNCEMENTS 271

BOOK REVIEWS 272

ADVERTISERS INDEX xxiii

INSTRUCTIONS TO AUTHORS xxvi

VOL. 18, NO. 3 AUG. 1991

ORIGINAL ARTICLES

Accuracy of Clinical Diagnosis in Parkinsonism - A Prospective Study
A.H. Rajput, B. Rozdilsky, and Alex Rajput 275

Parkinson's Disease and Exposure to Rural Environmental Factors: A Population Based Case-Control Study
Karen M. Semchuk, Edgar J. Love and Robert G. Lee 279

Two Types of Spheroid Bodies in the Nigral Neurons in Parkinson's Disease
Tatsua Yamada, Haruhiko Akiyama and Patrick L. McGeer 287

The Case For Conservative Management of Venous Angiomas
Douglas Kondziolka, Peter K. Dempsey and L. Dade Lunsford 295

Myotonic Dystrophy: An Electrophysiological Study of Cognitive Deficits
Aldo Ragazzoni, Francesco Pinto, Rosanna Taiuti, and Maria Caterina Silveri 300

Treatment of Heredo-Degenerative Ataxias with Amantadine Hydrochloride
M.I. Botez, Simon N. Young, Thérèse Botez and Olgo L. Pedraza 307

Dissociated Loss of Vibration, Joint Position and Discriminatory Tactile Senses in Disease of Spinal Cord and Brain
R.T. Ross 312

Modulation of Locomotor Patterns and Spasticity with Clonidine in Spinal Cord Injured Patients
J.E. Stewart, H. Barbeau and S. Gauthier 321

A Movement-Associated Fast Rolandic Rhythm
Richard S. McLachlan and Lai Wo S. Leung 333

Accessory Nerve Palsy: A Review of 23 Cases
H. Berry, E.A. MacDonald and A.C. Mrazek 337

Entrapment of an Accessory Superficial Peroneal Sensory Nerve
Michael Rubin, David Menche and Mark Pitman 342

Dementia with Leukoencephalopathy in Systemic Lupus Erythematosus
Andrew Kirk, Andrew Kertesz and Marsha J. Polk 344

Bulbo-pontine Paralysis with Deafness: the Vialetto-Van Laere Syndrome
J.M. Abarbanel, P. Ashby, A. Marquez-Julio and K.R. Chapman 349

Pathological and Molecular Biological Features of a Myelopathy Associated with HTLV-1 Infection
Christopher Power, Brian G. Weinshenker, Gregory A. Dekaban, John C.E. Kaufmann, Maureen Shandling, George P.A. Rice 352

Benign Brainstem Hemorrhage
Ashfaq Shuaib 356

Pheumocephalus following Treatment of Esthesioneuroblastoma
E.H. Klimek, R.L. Macdonald and J.H.N. Deck 358

A Footnote to Medical History: David Alexander Shirres on Spinal Cord Regeneration
Preston Robb 361

Minimal Standards for Electroencephalographic Laboratories 363

NOTES AND ANNOUNCEMENTS 365

CALENDAR OF EVENTS 366

BOOK REVIEWS 368

INSTRUCTIONS TO AUTHORS viii

ADVERTISERS INDEX xviii

VOL. 18, NO. 3 (Supplement) AUG. 1991

Preface 372

1. Effects of Dopamine Denervation on Striatal Peptide Expression in Parkinsonian Monkeys
Brigitte Lavoie, Andre Parent and Paul J. Bedard 373
2. Reactions of the Immune System in Chronic Degenerative Neurological Diseases
P.L. McGeer, E.G. McGeer, T. Kawamata, T. Yamada and H. Akiyama 376
3. Expression of the Immediate Early Gene *c-fos* in Basal Ganglia: Induction by Dopaminergic Drugs
H.A. Robertson, M.L. Paul, R. Moratalla and A.M. Graybiel 380
4. New Approaches to the Treatment of Age-Related Brain Disorders
M. Da Prada 384
5. Amyotrophic Lateral Sclerosis/Parkinsonism/Dementia: Clinicopathological Correlations Relevant to Guamanian ALS/PD
Arthur J. Hudson 387
6. Growth Factors and Lymphokines: Modulators of Cholinergic Neuronal Activity
Remi Quirion, Dalia M. Araujo, Paul A. Lapchak, David Seto and Jean-Guy Chabot 390
7. Differential Vulnerability to Excitatory Amino Acid-Induced Toxicity and Selective Neuronal Loss in Neurodegenerative Diseases
John H. Weiss and Dennis W. Choi 394
8. Molecular Interactions Modulating Neuronal Survival and Growth
R.J. Riopelle, K.E. Dow, V.M.K. Verge and P.M. Richardson 398
9. Exogenous NGF Affects Cholinergic Transmitter Function and Y-Maze Behavior in Aged Fischer 344 Male Rats
Lawrence R. Williams, R. Jane Rylett, Hylan C. Moises and Andrew H. Tang 403
10. New Biochemical Insights to Unravel the Pathogenesis of Alzheimer's Lesions
Alex E. Roher, Kenneth C. Palmer, John Capodilupo, Arun R. Wakade and Melvyn J. Ball 408
11. Neuronal Loss in a Lower Motor Neuron Disease Induced by a Murine Retrovirus
Paul Jolicoeur 411
12. Anomalous Gene Expression in Alzheimer Disease: Cause or Effect?
D.R.C. McLachlan, W.J. Lukiw, C. Mizzen, M.E. Percy, M.J. Somerville, M.K. Sutherland and L. Wong 414
13. Biochemistry and Genetics of Tay-Sachs Disease
R.A. Gravel, B.L. Triggs-Raine and D.J. Mahurant 419
14. B-Amyloid Protein in Alzheimer's Disease
Josephine Nalbantoglu 424
15. Chronic Aluminum-Induced Motor Neuron Degeneration: Clinical, Neuropathological and Molecular Biological Aspects
Michael J. Strong and Ralph M. Garruto 428
16. Hereditary Canine Spinal Muscular Atrophy: An Animal Model of Motor Neuron Disease
Linda C. Cork 432
17. The Role of Axonal Transport in Neurodegenerative Disease Spread: A Meta-Analysis of Experimental and Clinical Poliomyelitis Compared with Amyotrophic Lateral Sclerosis
Benjamin Rix Brooks 435
18. Treatment of Alzheimer's Disease: Hopes and Reality
S. Gauthier, L. Gauthier, R. Bouchard, R. Quirion and S. Sultan ... 439

VOL. 18, NO. 4 NOV. 1991

ORIGINAL ARTICLES

H-Reflex Modulation During Walking in Spastic Paretic Subjects
J.F. Yang, J. Fung, M. Edamura, R. Blunt, R.B. Stein and H. Barbeau 443

Correlation between Cerebral Blood Flow, Somatosensory Evoked Potentials, CT Scan Grade and Neurological Grade in Patients with Subarachnoid Hemorrhage
M. Fazl, D.A. Houlden and K. Weaver 453

Intraparenchymal and Intraventricular Hemorrhage without Mass Effect in Traumatic Coma
Jen-Pei Lee 458

Complications of the Transsphenoidal Approach to Sellar Lesions
Kesava Reddy, Derek Fewer and Michael West 463

Long-Term Evaluation of Sinemet® CR in Parkinsonian Patients with Motor Fluctuations
J. Thomas Hutton and Jerry L. Morris 467

Inter-Observer Agreement in Assessing Comatose Children
Shasi S. Seshia, Jerome Y. Yager, Bruce Johnston and Philip Haese 472

Multi-Joint Reaching Movements and Eye-Hand Tracking in Cerebellar Incoordination: Investigation of a Patient with Complete Loss of Purkinje Cells
W.J. Becker, B.L. Morrice, A.W. Clark and R.G. Lee 476

Clinical Correlates and Electroencephalographic Characteristics of Two Additional Patterns Related to 14 and 6 per Second Positive Spikes
J. Reiher and L. Carmant 488

3-Nitropropionic Acid – Exogenous Animal Neurotoxin and Possible Human Striatal Toxin
A.C. Ludolph, F. He, P.S. Spencer, J. Hammerstad and M. Sabri 492

Current Status of Radiosurgery for Arteriovenous Malformations
Michael Schwartz, Peter O'Brien, Phillip Davey, Charlene Young, Robert Willinsky and Charles Catton 499

Auricular Myoclonus
Andrew Kirk and Kenneth M. Heilman 503

The Association between Polycystic Kidney Disease and Cerebral Aneurysms
Michael G. Fehlings and Fred Gentili 505

Pupillary Areactivity in Hydrocephalus of Recent Onset
Dan Boghen and Maryann Aroichane 510

Eosinophilic Granuloma of the Occipital Bone Presenting as Intracranial Venous Hypertension
H. Wightman and B. Wheelock 512

Clival Chordoma Presenting with Acute Brain Stem Hemorrhage
Allan D.O. Levi, Walter Kucharczyk, Arnold P. Lange and Hart Schutz 515

NOTES AND ANNOUNCEMENTS 519

CALENDAR OF EVENTS 519

BOOK REVIEWS 521

INDEX TO VOLUME 18 526

INSTRUCTIONS TO AUTHORS viii

ADVERTISERS INDEX xxiii

VOL. 18, NO. 4 (Supplement) NOV. 1991

1. History of the Early Development of Electroencephalography and Clinical Neurophysiology at the Montreal Neurological Institute, The First 25 Years 1939 – 1964
H. Jasper 533
2. Development of Surgical Therapy of Epilepsy at the Montreal Neurological Institute
W. Feindel 549
3. Preoperative Electroencephalographic Investigation in Temporal Lobe Epilepsy: Extracranial and Intracranial Recordings
P. Gloor 554
4. Preoperative Electroencephalographic Investigation in Frontal Lobe Epilepsy: EEG, SEEG and ECoG Recordings
L.F. Quesney 559
5. Preoperative Electroencephalographic Localization of Large Epileptogenic Zones in the Frontal and Temporal Lobes
C. Ajmone-Marsan 564
6. Introduction à l'Etude Clinique des Crises Epileptiques Rétrorolandiques
J. Bancaud, J. Talairach, C. Munari, T. Giallonardo et P. Brunet ... 566
7. Localization of Epileptic Foci in Children
W. Blume and M. Kaibara 570
8. Relationships Between Interictal Spiking and Seizures: Human and Experimental Evidence
J. Gotman 573
9. EEG, MRI and Pathology in Patients Treated Surgically for Temporal Lobe Epilepsy
W. Feindel, Y. Robitaille, D. Tampieri, L. Goossens, M. Li and D. Melançon 577
10. Neuronal Migration Disorders: A Contribution of Modern Neuroimaging to the Etiologic Diagnosis of Epilepsy
A. Palmini. F. Andermann, D. Tampieri, Y. Robitaille, D. Melaçon and R. Ethier 580
11. PET Scanning in Partial Epilepsy
J. Engel 588
12. Temporal Lobe Surgery for Epilepsy: Neuropsychological Variables Related to Surgical Outcome
G. Leonard 593
13. On the Relative Localizing Value of Common Tests Used in the Preoperative Investigation of Epileptic Patients
J.M. St-Hilaire, F. Richer, A. Turmel, I. Rouleau and G. Bouvier ... 598
14. Temporal Lobectomy: Review of 100 Cases with Major Hippocampectomy
T. Rasmussen and W. Feindel 601
15. Temporal Lobectomy with Amygdalectomy and Minimal Hippocamal Resection: Review of 100 Cases
W. Feindel and T. Rasmussen 603
16. Tailoring of Cortical Excision for Frontal Lobe Epilepsy
T. Rasmussen 606
17. Surgery for Central, Parietal and Occipital Epilepsy
T. Rasmussen 611
18. Selective Amygdalohippocampectomy: Indications and Follow-up
H.G. Wieser 617
19. Relevance of Limbic Structures Removal in the Surgery of Temporal Lobe Epilepsy
A. Olivier 628
20. Electrophysiological Analysis of Human Neocortex *In Vitro*: Experimental Techniques and Methodological Approaches
M. Avoli, G.G.C. Hwa, G. Kostopoulos, A. Olivier and J.-G. Villemure 636
21. Biochemical Markers of Excitability in Human Neocortex
A.L. Sherwin, O. Vernat, F. Dubeau and A. Olivier 640
22. Bilateral Pathological Damage in Temporal Lobe Epilepsy
T. Babb 645
23. Surface Ictal Electroencephalographic Patterns in Frontal vs Temporal Lobe Epilepsy
B.E. Swartz, G.O. Walsh, A.V. Delgado-Escueta and P. Zolo 649